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TITLE: Piezoelectric component production by sol-gel coating of a metal substrate
PUBN-DATE: June 24, 1999

INVENTOR-INFORMATION:

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INT-CL (IPC): H01L041/08 , B06B001/06

EUR-CL (EPC): H01L041/24

ABSTRACT:

CHG DATE=19991002 STATUS=N>Piezoelectric components are produced by applying a coating sol of a hydrated lead salt, zirconium and titanium alcoholates and a complexing agent onto an electrically conductive substrate, and then heat treating. Piezoelectric components are produced by: (a) preparing a storable solid precursor of a coating sol of a hydrated lead salt, a zirconium alcoholate and a titanium alcoholate by using a complexing agent and carrying out a hydrolysis reaction and vacuum extraction of solid constituents; (b) dissolving the solid precursor in a solvent; (c) applying the resulting sol as one or more layers on one or both sides of an electrically conductive substrate of steel, Ti, Cr, Ni or their alloys; (d) heat treating the layer(s); and (e) applying one or more electrodes onto the resulting thin ferroelectric layer or multilayer system.

PAT-NO: JP406213899A
DOCUMENT-IDENTIFIER: JP 06213899 A
TITLE: PECULIAR QUANTIFYING METHOD FOR LDL IN SERUM SAMPLE AND REAGENT FOR IT
PUBN-DATE: August 5, 1994

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APPL-NO: JP05175061
APPL-DATE: July 15, 1993

INT-CL (IPC): G01N033/92

ABSTRACT:

PURPOSE: To attain the peculiar quantification of LDL by adding a water-soluble comb-type polymer having an anion side chain to a sample to be analyzed, and directly quantifying the content of a formed LDL peculiar agglomerate by the turbidity measuring method.

CONSTITUTION: A buffer and an LDL coagulant are added, an LDL agglomerate is directly measured, and the LDL component is peculiarly quantified under the existence of other serum lipoprotein. The anion comb-type polymer is expressed by formula I, where R1 indicates hydrogen or a lower hydrocarbon group (preferably methyl group), X indicates oxygen atom or an NH group, and A indicates a straight or branched hydrocarbon chain (preferably branched chain) having 2-10 carbon atoms. Z is induced from an acrylic ester monomer expressed by formula II.

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